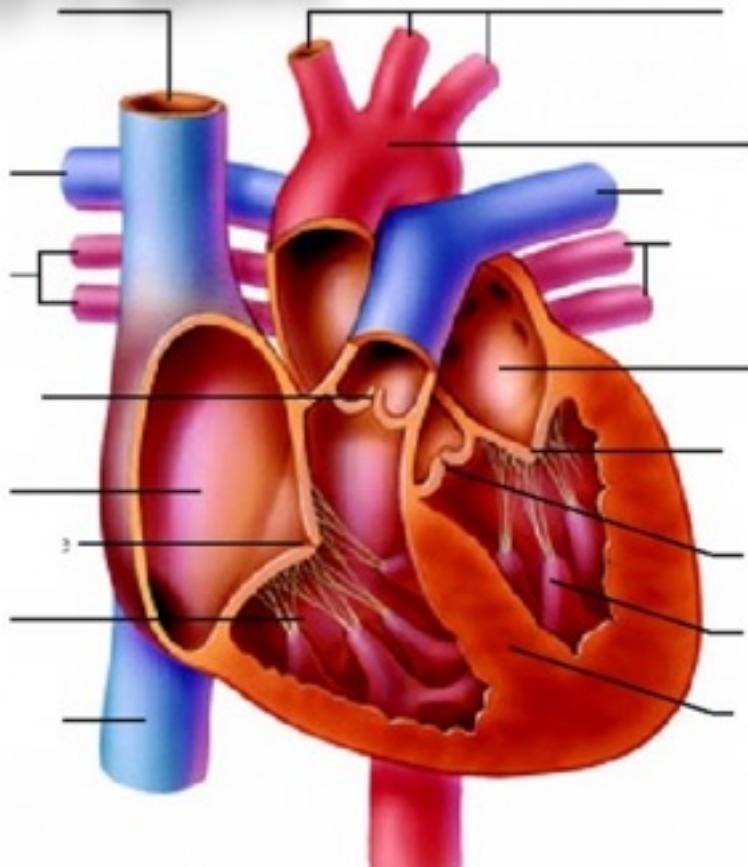


CIRCULATORY SYSTEM



The circulatory system is a vast network of organs and vessels. It is responsible for the flow of blood, oxygen, nutrients, and hormones to and from cells. Without the circulatory system, the body would not be able to fight disease or maintain a stable internal environment. In fact

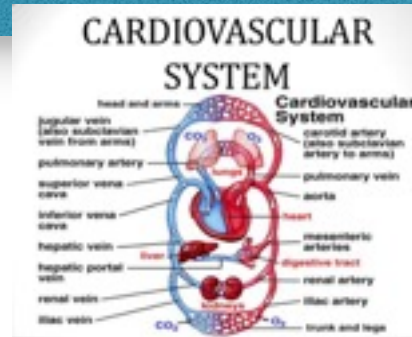
cardiovascular disease is the leading cause of death in the United States.

Questions

- 1) What is the circulatory system
- 2) What is blood
- 3) What are blood vessels

The circulatory system is made up of three independent systems that work together: **cardiovascular, pulmonary and systemic.**

The cardiovascular system makes up the network that delivers blood to the body's tissues. With each heartbeat, blood is sent throughout our bodies, carrying oxygen and nutrients to all of our cells.



The pulmonary circulatory system sends oxygen-depleted blood away from the heart through the pulmonary artery to the lungs and returns oxygenated blood to the heart through the pulmonary vein.

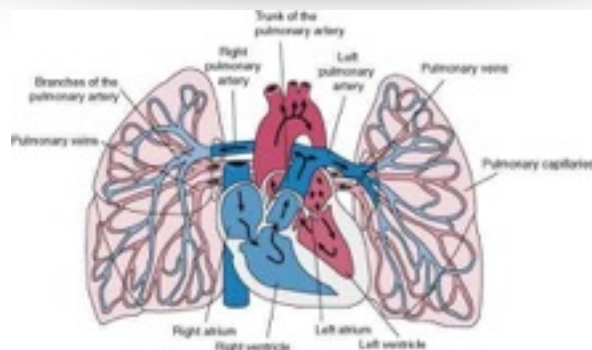


FIGURE 8-30 The pulmonary circulation.
(From Hicks GH: Cardiopulmonary anatomy and physiology, Philadelphia, 2000, WB Saunders.)

The systemic circulation is the portion of the circulatory system is the network of veins, arteries and blood vessels that transports blood from heart, services the body's cells and then re-enters the heart.

